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O.I.P.E.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001

TIME: 12:54:02

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\08162001\I923844.raw

4 <110> APPLICANT: Bao, Zhongmeng  
5 Lu, Guihua  
7 <120> TITLE OF INVENTION: Sclerotinia-inducible Genes and  
8 Promoters and Their Uses  
10 <130> FILE REFERENCE: 35718/234631  
!--> 12 <140> CURRENT APPLICATION NUMBER: US/09/923,844  
!--> 12 <141> CURRENT FILING DATE: 2001-08-07  
12 <150> PRIOR APPLICATION NUMBER: US 60/224,603  
13 <151> PRIOR FILING DATE: 2000-08-11  
15 <160> NUMBER OF SEQ ID NOS: 20  
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply  
Corrected Diskette Needed

## ERRORED SEQUENCES

128 <210> SEQ ID NO: 2  
129 <211> LENGTH: 371  
130 <212> TYPE: PRT  
131 <213> ORGANISM: Helianthus annuus  
133 <400> SEQUENCE: 2  
134 Met Glu Phe Leu Lys Ala Pro Thr Leu Leu Leu Val Ile Phe Ser Leu  
135 1 5 10 15  
136 Ala Ile Cys Ser Pro Ile Ser Ala Gln Asn Lys Gly Gly Tyr Trp Pro  
137 20 25 30  
138 Ser Trp Ala Gln Asp Phe Leu Pro Pro Ser Asn Ile Gln Thr Ala Tyr  
139 35 40 45  
140 Phe Thr His Val Tyr Tyr Ala Phe Leu Ser Pro Asn Asn Val Thr Phe  
141 50 55 60  
142 Gln Phe Asp Val His Arg Thr Thr Ala Ser Ala Leu Asn Ser Phe Asn  
143 65 70 75 80  
144 Thr Ala Leu His Gly Lys Asn Pro Pro Val Lys Thr Leu Phe Ser Ile  
145 85 90 95  
146 Gly Gly Gly Ser Ala Gly Val Lys Gln Leu Phe Ser Lys Leu Ala Ser  
147 100 105 110  
148 Ser Pro Gly Ser Arg Ala Ala Phe Ile Arg Ser Thr Ile Gln Val Ala  
149 115 120 125  
150 Arg Asn Tyr Tyr Phe Asp Gly Ala Asp Leu Asp Trp Glu Tyr Pro Glu  
151 130 135 140  
152 Thr Gln Thr Asp Met Asn Asn Phe Gly Leu Leu Leu Asp Glu Trp Arg  
153 145 150 155 160  
154 Val Ala Val Asn Asn Glu Ala Thr Ser Thr Gly Lys Pro Arg Leu Leu  
155 165 170 175  
156 Leu Ser Ala Ala Thr Arg His Glu Pro Glu Val Arg Asp Asn Gly Val  
157 180 185 190  
158 Ala Lys Tyr Pro Val Ala Ser Ile Asn Lys Asn Leu Asp Gly Ile Asn  
159 195 200 205  
160 Ala Met Cys Tyr Asp Tyr His Gly Pro Trp Thr Pro Asp Ala Thr Gly

see  
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```

161      210      215      220
162 Ala Pro Ala Ala Leu Tyr Asn Pro Asn Gly Ser Leu Ser Thr Ser Asn
163 225      230      235      240
164 Gly Leu Gln Ser Trp Ile Ser Ala Gly Ile Gln Arg Gln Lys Leu Val
165      245      250      255
166 Met Gly Met Pro Leu Tyr Gly Trp Thr Trp Lys Leu Lys Asn Pro Ser
167      260      265      270
168 Val Asn Gly Ile Gly Ala Pro Ala Ala Gly Ile Gly Pro Gly Asn Glu
169      275      280      285
170 Gly Ala Met Leu Tyr Ser Glu Val Gln Gln Phe Asn Ala Gln Asn Asn
171      290      295      300
172 Ala Arg Val Val Tyr Asp Thr Gln Thr Val Ser Tyr Tyr Ser Tyr Ser
173 305      310      315      320
174 Gly Thr Thr Trp Ile Gly Tyr Asp Asp Val Asn Ser Val Gln Arg Lys
175      325      330      335
176 Val Gln Tyr Ala Lys Ser Leu Asn Ile Gly Gly Tyr Phe Phe Trp Thr

```

E--&gt; 177

```

      340      345      350      ↑Ala Val Gly Asp Gln Asp Trp Lys
221 <210> SEQ ID NO: 4
222 <211> LENGTH: 97
223 <212> TYPE: PRT
224 <213> ORGANISM: Helianthus annuus
226 <400> SEQUENCE: 4
227 Met Lys Ala Pro Thr Met Ile Cys Phe Leu Val Ala Val Ile Ala Ala
228 1      5      10      15
229 Met Met Val Phe Met Gly Gln Leu Pro Ala Ala Thr Ala Val Thr Cys
230      20      25      30
231 Asn Tyr Met Glu Leu Val Pro Cys Ala Gly Ala Ile Ser Ser Ser Gln
232      35      40      45
233 Pro Pro Ser Gly Ser Cys Cys Ser Lys Val Arg Glu Gln Arg Pro Cys
234      50      55      60
235 Phe Cys Gly Tyr Leu Arg Asn Pro Ser Leu Arg Gln Phe Val Ser Pro

```

E--&gt; 236

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65      70      75      80 ↑Ala Ala Ala Gln Lys Ile Ala Ser
238 <210> SEQ ID NO: 5
239 <211> LENGTH: 849
240 <212> TYPE: DNA
241 <213> ORGANISM: Helianthus annuus
243 <400> SEQUENCE: 5
244 cgtcgttttcg cttgcagggg gataaaagat aatatcatga tcaccattca tcacgcctaa      60
245 aattcctcct cttagtcaat tgtgaattat ttgtaattat tgtgtagact ataactgtta      120
246 tgtcttttgca tatatttctc cttgtaatta gccttgattt ccagtatata atgatataca      180
247 aactctctaa tcaagcagag agagttccct gaattacatc accgctgcca ttttagtcca      240
248 ctaagttaac ttcateccatt aattttgtta acgtgaaagg aaattcggtc attttctatg      300
249 gccgaattgc ccttgtagtt cacaaaaatta catataaaac caccgaattg ccgttctcgt      360
250 taacagaaaa aatgaatgaa gttaaccagc tggactaaaa tggcaacgat gaaaccattt      420
251 tggatccaca ggcgaaaaat gaaacttttg gactaaactg gcgaaaaata aaacttttgg      480
252 actaaactac atgaactaaa atggctttta actaaatttt aataaccggt ttaattttat      540
253 aaagagaaaa taaactttac aaaaagcatt gcttggtctat ttataaaga ttaaagttac      600
254 ttgcacgttc aaacatatgt tactagatga atcaagagtc atgtacaact ctatgtttag      660
255 ataaggttac tagatgaata tgagtttagtc atctataagt ctatacttag aaagttcaaa      720

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001  
 TIME: 12:54:02

Input Set : A:\Seqlist.txt  
 Output Set: N:\CRF3\08162001\I923844.raw

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--> 256
tcaatgatt tgtattgaat actgtttgta gttgaattca taaaagcttt gaatactgtt 780↑gtagttgaa ttcataaaag
258 <210> SEQ ID NO: 6
259 <211> LENGTH: 1089
260 <212> TYPE: DNA
261 <213> ORGANISM: Helianthus annuus
263 <400> SEQUENCE: 6
264 atcctactac ctcaaacttt atctaattca tcaacacaac ggagggtttgg ttatatttgt 60
265 ttggtccatc caaaaggaca aaaatgcact tcatcttaac aaaaaaaaaa aaaaaaaaaa 120
266 ctaagttagt gatttggatg aaaatgacaa acaaaaggac aaaaatgcac ttcattctaa 180
267 caaaaaaaaa actgagttag taatttggat gaaaacgaca aaaaaagaca aacctgaaag 240
268 attcaaatgc acaaaaaaat tattttggat gaaacacgca tatatgatca aaccaagag 300
269 acgattttta tattttactc gaaattttta agaagttta tattagacag gaatcatgtt 360
270 agagacatat gccaaacctt ttaattttct aagttcaaac aaaaatctat tattttttcc 420
271 aaaccacagc tataattttat gtaattttat ctctataaat ggacaaagaa taaaagtttt 480
272 ctacaaacgg taacaacaag gaagctaccc tcgttttgaa gatagttaag acaataattc 540
273 aactactttc taactacttt tctcacaaga cttaattttc cacacacatc tttatgacta 600
274 aatctaccat atgtgatggg ccagtcaacc attaatatgt cttcaaccac aagtcggtta 660
275 accggaccat cagccacttg gccacgggcg cagcttagtg gaaaccgggg gtgcacaacc 720
276 cctctaattg ttcggttaga agtgcaaaat ttacgatttt tcgtccgaaa attttcgccc 780
277 accagaactt ttagtcaaac ttcgccactg cactttgccc aatgttctat taaggttttt 840
278 attttatttt tattattttt tataacgatt ccaaaaattt tttggacata tacatctgac 900
279 atgcgttata tgtagatata gaatttgaac tcgcaacctt ttaattatac gatacatcac 960

E--> 280
cacctagatt tgaattctca ttggggccaa tgggtctataa ataatgcacc aaccctcag 1020↑tttaaacac caccactaca
```

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09/923,844 4

<210> 2  
<211> 371  
<212> PRT  
<213> Helianthus annuus

<400> 2

Met Glu Phe Leu Lys Ala Pro Thr Leu Leu Leu Val Ile Phe Ser Leu 1  
5 10 15 <sup>hard</sup> Ala Ile Cys Ser Pro Ile Ser Ala  
Gln Asn Lys Gly Gly Tyr Trp Pro 20 25  
30 Ser Trp Ala Gln Asp Phe Leu Pro Pro Ser Asn Ile Gln Thr Ala Tyr  
35 40 45 Phe Thr His Val Tyr Tyr  
Ala Phe Leu Ser Pro Asn Asn Val Thr Phe 50 55  
60 Gln Phe Asp Val His Arg Thr Thr Ala Ser Ala Leu Asn Ser Phe  
Asn65 70 75 80 Thr Ala Leu  
His Gly Lys Asn Pro Pro Val Lys Thr Leu Phe Ser Ile 85  
90 95 Gly Gly Gly Ser Ala Gly Val Lys Gln Leu Phe Ser Lys  
Leu Ala Ser 100 105 110 Ser  
Pro Gly Ser Arg Ala Ala Phe Ile Arg Ser Thr Ile Gln Val Ala 115  
120 125 Arg Asn Tyr Tyr Phe Asp Gly Ala Asp Leu Asp  
Trp Glu Tyr Pro Glu 130 135 140  
Thr Gln Thr Asp Met Asn Asn Phe Gly Leu Leu Leu Asp Glu Trp Arg145  
150 155 160 Val Ala Val Asn Asn Glu Ala Thr Ser  
Thr Gly Lys Pro Arg Leu Leu 165 170  
175 Leu Ser Ala Ala Thr Arg His Glu Pro Glu Val Arg Asp Asn Gly Val  
180 185 190 Ala Lys Tyr Pro Val Ala Ser  
Ile Asn Lys Asn Leu Asp Gly Ile Asn 195 200  
205 Ala Met Cys Tyr Asp Tyr His Gly Pro Trp Thr Pro Asp Ala Thr Gly  
210 215 220 Ala Pro Ala Ala Leu  
Tyr Asn Pro Asn Gly Ser Leu Ser Thr Ser Asn225 230  
235 240 Gly Leu Gln Ser Trp Ile Ser Ala Gly Ile Gln Arg Gln Lys  
Leu Val 245 250 255 Met Gly  
Met Pro Leu Tyr Gly Trp Thr Trp Lys Leu Lys Asn Pro Ser 260  
265 270 Val Asn Gly Ile Gly Ala Pro Ala Ala Gly Ile Gly  
Pro Gly Asn Glu 275 280 285  
Gly Ala Met Leu Tyr Ser Glu Val Gln Gln Phe Asn Ala Gln Asn Asn 290  
295 300 Ala Arg Val Val Tyr Asp Thr Gln Thr Val  
Ser Tyr Tyr Ser Tyr Ser305 310 315  
320 Gly Thr Thr Trp Ile Gly Tyr Asp Asp Val Asn Ser Val Gln Arg Lys  
325 330 335 Val Gln Tyr Ala Lys Ser Leu Asn  
Ile Gly Gly Tyr Phe Phe Trp Thr 340 345  
350 Ala Val Gly Asp Gln Asp Trp Lys Ile Ser Arg Leu Ala Ser Gln Thr  
355 360 365 Trp Thr Ala 370

insert hard  
return after  
last amino acid on  
each  
line  
and  
after  
last amin  
acid  
number  
on each  
line

Please make similar edits to  
segs. 4-6, too - same  
format error

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001

TIME: 12:54:03

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\08162001\I923844.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:177 M:252 E: No. of Seq. differs, <211>LENGTH:Input:371 Found:352 SEQ:2  
L:236 M:252 E: No. of Seq. differs, <211>LENGTH:Input:97 Found:80 SEQ:4  
L:256 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13  
L:256 M:252 E: No. of Seq. differs, <211>LENGTH:Input:849 Found:720 SEQ:5  
L:280 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13  
L:280 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1089 Found:960 SEQ:6